



Dart Hawkesbury  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

**D3552-15**  
**Job Sheet 168362**



**Part No:** D3552-15

**Job Qty:** 5 ea

**Part Name:** Door Prop



**Part Weight:** 0 lbs

**Status:** Scheduled

**Priority:** Medium

**Job Created:** 11/13/17

**Job Tracking No:**

**Due Date:** 11/17/17

**Created By:** Marie Lajeunesse

**Type:** Stock

**Description:**

**Customer:** Coldstream Helicopters Ltd (CCOLD01)

6200 Tronson Road Vernon, BC, V1H1N5 Canada ph:(778) 475-6224 fx:(778) 475-6225.

**Note:** DWG REV L IPP Rev:A 10.09.24 new issue DD Verf:EC IPP Rev:B 10.12.03 as per dwg rev.G DD verf:EC IPP Rev:C 12.07.30 AS PER ECN12-624 DD verf:EC

**Ship Via:**

### Bill of Materials

### Job Routing

| Op No | Operation  | Qty   | Start Date | Due Date | Standard  |         | Workcenter/Supplier   |           | Sign-off |
|-------|------------|-------|------------|----------|-----------|---------|-----------------------|-----------|----------|
|       |            |       |            |          | Setup hrs | Run Hrs | Workcenter / Supplier | Lead Time |          |
| 100   | Purchasing | 5 pcs |            | 11/17/17 | 0.00      | 0.00    | Purchasing            |           |          |
| 110   | Packaging  | 5 pcs |            | 11/17/17 | 0.00      | 0.00    | Packaging2            |           | DAS      |
| 120   | QC         | 5 pcs |            | 11/17/17 | 0.00      | 0.00    | QC6                   |           | 38       |
| 130   | Packaging  | 5 pcs |            | 11/17/17 | 0.00      | 0.00    | Packaging3            |           | 54       |
| 140   | QC21-SA    | 5 Ea  |            | 11/17/17 | 0.00      | 0.00    | QC21                  |           | 21       |

Part Op 110 - Receive & Inspect for Damage & Mat'l Certs  
Descriptions: 120 - QC6- All purchased or subcontracted products  
130 - Identify as per dwg & Stock Location: \_\_\_\_\_  
140 - QC21- Final Inspection - Work Order Release

PO 038344

NOV 13 2017

DEC 05 2017

### Job Allocations

| Operation      | Component Part   | Required | Inventory | Allocated | Std Qty |
|----------------|------------------|----------|-----------|-----------|---------|
| 100-Purchasing | B8-154-387-300NX | 5        | 0         | 0         | 0       |

### Part Specifications

Specifications could not be found.



| DART PART NUMBER | DESCRIPTION               | STROKE (mm/in) | EXTENDED LENGTH (mm/in) | FORCE (N/lb) | END FITTING            | MATERIAL     | SUPPLIER        | SUPPLIER PART NUMBER OR MODEL NUMBER |
|------------------|---------------------------|----------------|-------------------------|--------------|------------------------|--------------|-----------------|--------------------------------------|
| D3552-1          | DOOR PROP                 | 220/8.66       | 530/20.6                | 70/15.7      | 10mm SS BALL SOCKET    | CARBON STEEL | LS TECHNOLOGIES | C8-220-530-070N                      |
| D3552-3          | DOOR PROP                 | 200/7.87       | 490/19.3                | 200/45.0     | 10mm SS BALL SOCKET    | CARBON STEEL | LS TECHNOLOGIES | C8-200-490-200N                      |
| D3552-5          | DOOR PROP                 | 175/6.89       | 430/16.9                | 150/33.7     | 10mm SS BALL SOCKET    | CARBON STEEL | LS TECHNOLOGIES | C8-175-430-150N                      |
| D3552-7          | DOOR PROP                 | 220/8.66       | 530/20.9                | 70/15.7      | 10mm NYLON BALL SOCKET | CARBON STEEL | LS TECHNOLOGIES | B8-220-530-070N                      |
| D3552-9          | DOOR PROP                 | 200/7.87       | 490/19.3                | 200/45.0     | 10mm NYLON BALL SOCKET | CARBON STEEL | LS TECHNOLOGIES | B8-200-490-200N                      |
| D3552-11         | DOOR PROP                 | 240/9.45       | 575/22.6                | 150/33.7     | 10mm NYLON BALL SOCKET | CARBON STEEL | LS TECHNOLOGIES | B8-240-575-150N                      |
| D3552-13         | DOOR PROP                 | 220/8.66       | 530/20.9                | 140/31.5     | 10mm NYLON BALL SOCKET | CARBON STEEL | LS TECHNOLOGIES | B6-220-530-140N                      |
| D3552-15         | DOOR PROP W/EXTRA DAMPING | 154/6.06       | 387/15.2                | 300/67.4     | 10mm NYLON BALL SOCKET | CARBON STEEL | LS TECHNOLOGIES | B8-154-387-300NX                     |
| D3552-17         | DOOR PROP W/EXTRA DAMPING | 154/6.06       | 387/15.2                | 156/35.1     | 10mm NYLON BALL SOCKET | CARBON STEEL | LS TECHNOLOGIES | B8-154-387-156NX                     |
| D3552-19         | DOOR PROP W/EXTRA DAMPING | 154/6.06       | 387/15.2                | 60/13.5      | 10mm NYLON BALL SOCKET | CARBON STEEL | LS TECHNOLOGIES | B8-154-387-060NX                     |
| D3552-21         | DOOR PROP                 | 167/6.57       | 410/16.1                | 70/15.7      | 10mm NYLON BALL SOCKET | CARBON STEEL | LS TECHNOLOGIES | B6-167-410-070N                      |
| D3552-23         | DOOR PROP                 | 190/7.48       | 475/18.7                | 70/15.7      | 10mm NYLON BALL SOCKET | CARBON STEEL | LS TECHNOLOGIES | B6-190-475-070N                      |
| D3552-25         | DOOR PROP W/EXTRA DAMPING | 148/5.83       | 475/18.7                | 300/67.4     | 10mm NYLON BALL SOCKET | CARBON STEEL | LS TECHNOLOGIES | B8-148-475-300NX                     |
| D3552-27         | DOOR PROP W/EXTRA DAMPING | 148/5.83       | 475/18.7                | 156/35.1     | 10mm NYLON BALL SOCKET | CARBON STEEL | LS TECHNOLOGIES | B8-148-475-156NX                     |
| D3552-29         | DOOR PROP                 | 190/7.48       | 475/18.7                | 100/22.5     | 10mm NYLON BALL SOCKET | CARBON STEEL | LS TECHNOLOGIES | B6-190-475-100N                      |
| D3552-101        | CLIP                      | N/A            | N/A                     | N/A          | N/A                    | CARBON STEEL | LS TECHNOLOGIES | C9                                   |
| D3552-103        | BALL SOCKET END           | N/A            | N/A                     | N/A          | N/A                    | NYLON        | LS TECHNOLOGIES | B10                                  |

SHOP COPY  
RETURN TO  
ENGINEERING  
UNCONTROLLED COPY  
SUBJECT TO AMENDMENT  
WITHOUT NOTICE  
WORK ORDER  
NO. 168362 M.C.5  
17-11-13

### D3552-X DOOR PROP

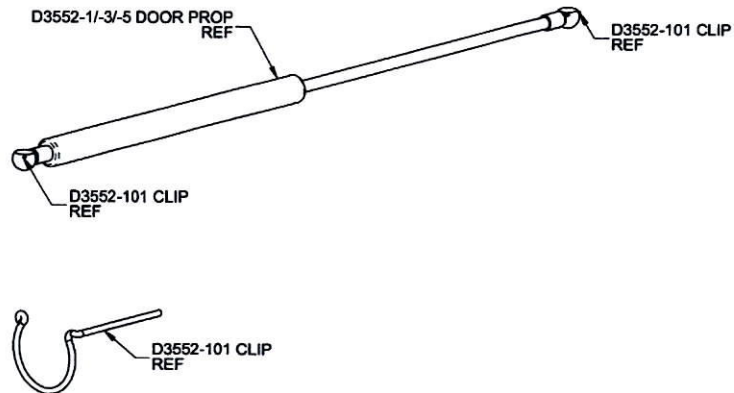
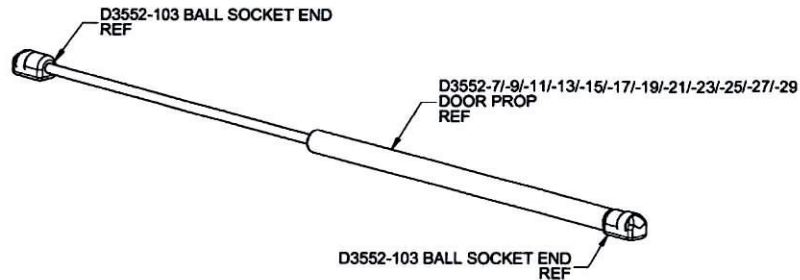
RELEASED  
2015-08-04

- NOTES:  
1) IDENTIFICATION: IDENTIFY PER QSI 044 6.2  
2) D3552-101 CLIP IS ONLY COMPATIBLE WITH D3552-1/-3/-5 DOOR PROPS  
3) D3552-103 BALL SOCKET END IS ONLY COMPATIBLE WITH D3552-7/-9/-11/-13/-15/-17/-19/-21/-23/-25/-27/-29 DOOR PROPS

APPROVED

|            |          |                                                                                                                                                                                                                                                                           |              |
|------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| DESIGN     | VS       | DART AEROSPACE LTD<br>HAWKESBURY, ONTARIO, CANADA                                                                                                                                                                                                                         |              |
| DRAWN      | VS       |                                                                                                                                                                                                                                                                           |              |
| CHECKED    | AK       | DRAWING NO.                                                                                                                                                                                                                                                               | REV. L       |
| MFG. APPR. | DD       | D3552                                                                                                                                                                                                                                                                     | SHEET 2 OF 2 |
| APPROVED   | HS       | TITLE                                                                                                                                                                                                                                                                     | SCALE        |
| DE APPR.   | DS       | DOOR PROP                                                                                                                                                                                                                                                                 | NTS          |
| DATE       | 15.04.13 | COPYRIGHT © 2006 BY DART AEROSPACE LTD<br>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL, AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD. |              |

# SPECIFICATION CONTROL DRAWING



**RELEASED**  
2015-08-04  
ECN 15-609

|      |                                                                                                                                                                                                                 |     |          |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------|
| L    | ADD P/N D3552-29                                                                                                                                                                                                | VS  | 15.04.13 |
| K    | ADD "X" TO L3 TECHNOLOGIES P/Ns TO DESIGNATE "EXTRA DAMPING" FOR D3552-15/-17/-19/-25/-27. REASON: PAR12-209.                                                                                                   | MB  | 12.07.16 |
| J    | ADD P/N D3552-25/-27. REMOVE ALTERNATE PART NUMBER FOR -15, -17 AND -19. STROKE FOR -15, -17 AND -19 WAS 139/6.06 NOW 154/6.06. EXTENDED LENGTH FOR -15, -17 AND -19 WAS 388/15.2 NOW 387/15.2.                 | AP  | 11.12.07 |
| I    | ADD P/N D3552-23                                                                                                                                                                                                | RF  | 11.10.11 |
| H    | ADD P/N D3552-21                                                                                                                                                                                                | DC  | 11.03.10 |
| G    | FOR -15, FORCE 300/67.4 WAS 400/89.9. SUPPLIER P/N B8-154-387-300N WAS B8-154-387-400N; FOR -17, STROKE: 139/5.47 WAS 160/6.30, EXT LG: 386/15.2 WAS 407/16.0. SUPPLIER P/N B8-154-387-156N WAS B8-167-408-156N | JPH | 10.11.01 |
| F    | ADD P/N D3552-15/-17/-19 AND ALTERNATE SUPPLIER                                                                                                                                                                 | JPH | 10.07.27 |
| E    | ADD P/N D3552-13 ZN B8-1, A8-1, D6-1, CHANGE NAME FROM "GAS SPRING" TO "DOOR PROP" THROUGH OUT DWG                                                                                                              | HS  | 10.02.03 |
| D    | ADD P/N D3552-101 ZN D6-1, C7-1, C1-1 AND D3552-103 ZN D1-1 AND C2-1 AND ZN B8-1; ADD NOTE REGARDING D3552-101 AND D3552-103 COMPATIBILITY ZN A8-1                                                              | HS  | 09.04.02 |
| C    | ADD D3552-11 AND CONVERSIONS FOR INSPECTION; UPDATE P/N FOR D3552-7                                                                                                                                             | LE  | 07.06.01 |
| B    | ADD D3552-7/-9; UPDATE DESC. D3552-1/-3/-5                                                                                                                                                                      | LE  | 06.10.24 |
| A    | NEW ISSUE                                                                                                                                                                                                       | LE  | 06.09.15 |
| REV. | DESCRIPTION                                                                                                                                                                                                     | BY  | DATE     |

APPROVED

|            |          |                                                                                                                                                                                                                                                                                                                         |              |
|------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| DESIGN     | VS       | <b>DART AEROSPACE LTD</b><br>HAWKESBURY, ONTARIO, CANADA                                                                                                                                                                                                                                                                |              |
| DRAWN      | VS       |                                                                                                                                                                                                                                                                                                                         |              |
| CHECKED    | AK       | DRAWING NO.                                                                                                                                                                                                                                                                                                             | REV. L       |
| MFG. APPR. | DD       | <b>D3552</b>                                                                                                                                                                                                                                                                                                            | SHEET 1 OF 2 |
| APPROVED   | HS       | TITLE                                                                                                                                                                                                                                                                                                                   | SCALE        |
| DE APPR.   | DS       | <b>DOOR PROP</b>                                                                                                                                                                                                                                                                                                        | NTS          |
| DATE       | 15.04.13 | <small>           COPYRIGHT © 2008 BY DART AEROSPACE LTD<br/>           THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.         </small> |              |





Dart Hawkesbury  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# PURCHASE ORDER PO038344

**Supplier:** LST001-VC  
LS Technologies Inc.  
1634 Saskatchewan Ave.  
Saskatoon  
SK  
S7K 1P6 Canada  
Phone: 306 683 5000  
Fax: 306 683 6403

**PO No:** PO038344  
**PO Date:** 11/13/17  
**Due Date:** 11/20/17  
**Purchase Order  
Revision:**  
**Revision Date:**  
**Ship-To Contact:** Phone:

**E-MAILED**  
NOV 14 2017

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**Via:** Ground  
**Pynt Terms:** Net 30  
**Freight Terms:**  
**Special Comments:** Please ship FedEx  
Account # 151793240

## Items

| Line<br>Item | Part                     | Rev | Description                              | Item Tax | Status | Due<br>Date | Order<br>Quantity | Received<br>Quantity | Balance | Unit<br>Price (CAD) | Extended<br>Price |
|--------------|--------------------------|-----|------------------------------------------|----------|--------|-------------|-------------------|----------------------|---------|---------------------|-------------------|
| 1            | B8-154-<br>387-<br>300NX | -   | Gas Spring<br>As per Dwg D3552<br>Rev. L |          | Firmed | 11/20/17    | 5 pcs             | 0 pcs                | 5 pcs   | \$26.4999/pcs       | \$132.50          |

**Line Item Note** job# 168362

**Grand Total:** \$132.50

## Order Notes

### Procurement Quality Clauses

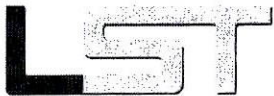
A005 right of entry  
A012 chemical and physical test report  
A016 personnel qualification  
A017 raw material identification (as applicable)  
A026 certification of material conformance  
A041 quality management system  
A042 dart notification by supplier  
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit  
[www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Plex 11/13/17 3:08 PM dart.baker.diane



LS TECHNOLOGIES INC  
1634 Saskatchewan Ave  
Saskatoon, SK S7K 1P6

# Packing Slip

| P.O. No. | Date       | Invoice # |
|----------|------------|-----------|
| 038344   | 11/17/2017 | 17511     |

|                                                                   |
|-------------------------------------------------------------------|
| Bill to:                                                          |
| Dart Aerospace Ltd<br>1270 Aberdeen St.<br>Hawkesbury, ON K6A 1K7 |

|                                                                                                   |
|---------------------------------------------------------------------------------------------------|
| Ship to:                                                                                          |
| Main Finished Goods Location<br>Dart Aerospace Ltd<br>1270 Aberdeen St.<br>Hawkesbury, ON K6A 1K7 |

| Ship       | Via    | FOB |
|------------|--------|-----|
| 11/17/2017 | Fed-Ex |     |

| Qty | Description                                                                                         |
|-----|-----------------------------------------------------------------------------------------------------|
| 5   | D3552-15 B168362 Gas Spring ( B8-154-387-300NX )<br><br>Shipping Via FED EX Tracking # 770777881354 |

SEP 11-24

DAS  
36  
9-89

Order checked by :



LS Technologies Inc

1634 Saskatchewan Ave,  
Saskatoon, SK S7K 1P6  
Ph: (306) 683-5000 Fax: (306) 683-6403

### **Certificate of Compliance**

Nov 17, 2017

This is to certify that the parts listed below meets specifications as required by your order.

**5 Units: D3552-15 B168362 Gas Spring**

**Country of Manufacture: Canada**

**Date of Manufacture : Nov 2017**

**This product is ROHS compliant.**

**Purchase Order # 038344**

**Invoice # 17511**

L S Technologies Inc Canada

A blue ink signature of Nolan Fehr, consisting of a series of loops and strokes, positioned above a horizontal line.

Nolan Fehr  
President

**DART**  
AEROSPACE  
**S013636**

**Dart Aerospace Ltd.**

1270 Aberdeen Street  
Hawkesbury, ON K64 1K7  
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Email: [sales@dartaero.com](mailto:sales@dartaero.com)  
[www.dartaerospace.com](http://www.dartaerospace.com)



**Door Prop**

**PART NO: D3552 - 15**  
**Revision:**  
**Operation: Purchasing**  
**Change No:**

**Mfg Date: 11/25/17**

**Job No: 168362**